

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY SCKET NO.

265/247

SERIAL NO.

Not Yet Assigned

APPLICANT:

Jing Cheng et al.

FILING DATE:

Herewith

GROUP:

1743

11000 U.S. PTO  
09/905755  
07/13/01

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
JS	AA	3,346,479	10/67	Natelson	204	301	04/09/64
	AB	3,375,187	3/68	Buchler	204	301	05/13/65
	AC	3,533,933	10/70	Strauch	204	180	04/01/68
	AD	3,539,493	11/70	Dorman	204	299	08/31/67
	AE	3,616,454	10/71	Levy et al.	204	299	03/13/69
	AF	3,640,813	2/72	Nerenberg	204	299	06/09/69
	AG	3,697,405	10/72	K. Butter et al.	204	275	11/03/69
	AH	3,773,648	11/73	Van Welzen et al.	204	299	10/25/72
	AI	3,791,950	2/74	Allington	204	299	02/14/72
	AJ	3,902,986	9/75	Nees	204	299	04/23/73
	AK	3,980,546	9/76	Caccavo	204	299	06/27/75
	AL	4,111,785	9/78	Roskam	204	180	05/16/77
	AM	4,390,403	06/28/83	Batchelder	204	547	
	AN	4,441,972	04/10/84	Pohl	204	180	04/08/83
	AO	4,479,861	10/84	Hediger	204	180	07/19/83
	AP	4,661,451	04/28/87	Hansen	435	174	
	AQ	4,699,706	10/87	Burd et al.	204	301	05/30/86
	AR	4,787,963	11/88	MacConnell	204	180	05/04/87
	AS	4,877,510	10/89	Chen	204	299	10/25/88
	AT	4,908,112	03/90	Pace	204	299	06/16/88
	AU	5,126,022	06/92	Soane	204	180	02/28/90
JS	AV	5,139,637	08/92	MacConnell	204	299	03/13/91

OC-86907.1

EXAMINER:

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DATE CONSIDERED:

9/30/04

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<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	<b>ATTY SCKET NO.</b> 265/24	<b>SERIAL NO.</b> Not Yet Assigned
	<b>APPLICANT:</b> Jing Cheng et al.	
	<b>FILING DATE:</b> Herewith	<b>GROUP:</b> 1743

93	AW	5,151,189	09/92	Hu Et al.	204	635	09/17/90
	AX	5,161,165	09/92	Huynh	204	299	04/25/90
	AY	5,209,831	05/93	MacConnell	204	299	06/14/91
	AZ	5,217,593	6/93	MacConnell	204	299	07/30/92
	BA	5,269,931	12/93	Hu Et al.	210	635	08/20/91
	BB	5,340,499	08/94	Shukla	204	180	10/23/92
	BC	5,344,535	09/06/94	Betts Et al.	204	183.1	
	BD	5,376,249	12/94	Afeyan Et al.	204	180	11/25/92
	BE	5,382,511	01/95	Stapelton	435	6	08/24/92
	BF	5,434,049	07/95	Okano	435	6	02/24/93
	BG	5,451,500	9/95	Stapelton	435	6	03/03/92
	BH	5,569,367	10/29/96	Betts Et al.	204	547	
	BI	5,653,859	08/05/97	Parton Et al.	204	450	
	BJ	5,589,047	12/31/96	Coster Et al	204	450	
	BK	5,605,662	02/25/97	Heller Et al.	422	68.1	
	BL	5,795,457	08/18/98	Pethig Et al.	204	547	
	BM	5,814,200	09/29/98	Pethig Et al.	204	547	
93	BN	5,858,192	01/12/99	Becker Et al.	204	547	

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
93	BO	434985	1/75	Russia			
	BP	616568	7/78	Russia			
	BQ	DE 4400955 A1	06/29/95	Germany			X
93	BR	WO 93/05166	03/18/93	PCT	5		X

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FORM PTO-1449	ATTY. DOCKET NO.	SERIAL NO.
	265/247	Not Yet Assigned
	APPLICANT:	
	Jing Cheng et al.	
LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE:	GROUP:
	Herewith	1743
(Use several sheets if necessary)		

95	BS	WO 96/07917	03/14/96	PCT	5		X	
	BT	WO 93/05390	3/93	PCT Published				
	BU	WO 97/08293	3/97	PCT				
	BV	PCT/GB95/02024		PCT				
	BW	EP 0 471 949	2/92	EPO				
	BX	EP 0 544 969	6/93	EPO				
	BY	EP 0 287 513	10/88	EPO				
95	BZ	8021679	3/73	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
95	CA	Camag, Inc. Product Literature
	CB	Fuhr et al., Positioning and Manipulation of Cells and Microparticles Using Miniaturized Electric Field Traps and Travelling Waves; Sensors and Materials, Vol. 7, No. 2 (1995) 131-146
	CC	"Dielectrophoretic Manipulation of Particles," Wang et al. <i>IEEE Transactions on Industry Applications</i> , Vol. 33, No. 3 (May/June 1997)
	CD	"Dielectrophoretic separation of bacteria using a conductivity gradient," Markx et al. <i>Journal of Biotechnology</i> , 51 (1996) 175-180
	CE	"Dielectrophoresis: Using Inhomogeneous AC Electrical Fields to Separate and Manipulate Cells," Ronald Pethig, <i>Critical Reviews in Biotechnology</i> , 16(4):331-348 (1996)
	CF	"Positive and negative dielectrophoretic collection of colloidal particles using interdigitated castellated microelectrodes," Pethig et al., <i>J. Phys. D: Appl. Phys.</i> , 24 (1992) 881-888
	CG	"The removal of human leukemia cells from blood using interdigitated microelectrodes," Becker et al., <i>J. Phys. D: Appl. Phys.</i> , 27 (1994) 2659-2662
95	CH	"Dielectrophoretic characterization and separation of micro-organisms", Markx et al., <i>Microbiology</i> (1994) 140, 585-591

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ATTY. DOCKET NO.  
612404-377 (formerly  
265/247)SERIAL NO.  
09/905,755LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT:  
Cheng J.FILING DATE:  
July 13, 2001GROUP:  
1753

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>JS</i>	3,627,137	12/14/1971	Bier	210	321	12/14/1971
	4,326,934	04/27/1982	Pohl	204	547	12/31/1979
	4,617,102	10/14/1986	Tomblin et al	204	299	03/21/1985
	4,737,259	04/12/1988	Ogawa et al	204	299	12/29/1986
	4,936,963	06/26/1990	Mandecki et al	204	182.8	05/23/1989
	5,078,853	01/07/1992	Manning et al	204	299	03/22/1991
	5,427,664	06/27/1995	Stoev et al	204	182.3	07/22/1993
	5,593,580	01/14/1997	Kopf	210	321.75	03/15/1995
	5,728,267	03/17/1998	Flaherty	210	321.67	11/15/1994
	5,849,486	12/15/1998	Heller et al.	435	6	09/27/1995
	6,017,696	01/25/2000	Heller	435	6	07/07/1994
	6,048,690	04/11/2000	Heller et al	435	6	05/14/1997
	6,051,380	04/18/2000	Sosnowski et al	435	6	12/05/1997
	6,071,394	06/06/2000	Cheng et al.	204	547	01/30/1998
	6,099,803	08/08/2000	Ackley et al.	422	68.1	02/20/1998
	6,280,590	08/28/2001	Cheng et al.	204	463	04/13/2000
<i>JS</i>	6,309,601	10/30/2001	Juncosa et al.	422	68.1	05/01/1997

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GROUP 1700

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO YES NO
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IRI:1046896. EXAMINER:

DATE CONSIDERED:

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09/905,755OFFICE OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
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Cheng J.FILING DATE:  
July 13, 2001GROUP:  
1753

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO	
							YES	NO
JS		DE 2051715 A	04/27/72	Germany (Max Planck)				
I		GB 2118975 A	11/09/83	GB (Nishizawa et al)				
I		GB 1359944 A	07/17/94	GB (Miles Lab)				
JS		WO 01/13126 A1	02/22/01	PCT (Heller et al)				

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IR1:1046896.1 EXAMINER:

DATE CONSIDERED:

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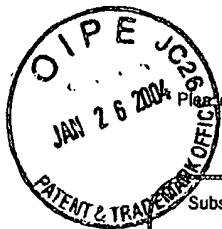
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FORM PTO-1449	ATTY. DOCKEY, D. 612404-377 (formerly 265/247)	SERIAL NO. 09/905,755
LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT: Cheng J.
Use several sheets if necessary)		FILING DATE: July 13, 2001
		GROUP: 1753

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	
95	CHENG, J. et al, "Preparation & Hybridization Analysis OF DNA/RNA From E.coli On Microfabricated Bioelectronic Chips", Nature/Biotechnology, vol. 16, 1998, 541-546.
	EDMAN, C.F. et al., "Electric field directed nucleic acid hybridization on microchips", Nucleic Acids Research, vol. 25, no. 24, 1997, 4907-4914.
	FUHR, G., "Cell Manipulation and Cultivation Under AC Electric Field Influence in Highly Conductive Culture Media", Biochem. Biophys. Acta, vol. 1158, 1993, 40-46.
	GILLES, P.N., et al, "Single Nucleotide Polymorphic Discrimination By An Electronic Dot Blot Assay On Semiconductor Chips", Nature/Biotechnology, vol. 17, no. 4, 1999, 365-370.
	HELLER, M.J., "An Active Microelectronics Device For Multiplex Analysis", IEEE Engineering in Medicine & Biology, March/April 1996, 100-104.
	HUANG, Y. et al., "Electric Manipulation Of Bioparticles & Macromolecules On Microfabricated Electrodes", Analytical Chemistry, vol. 73, no. 7, 2001, 1549-1559.
	MANZ, A., et al, "Miniaturized Total Chemical Analysis System: A Novel Concept For Chemical Sensing", Sensors & Actuators B1, 1990, 244-248.
	SCANNING LASER MICROSCOPY LAB, Web Site print-out, <a href="http://www.science.uwaterloo.ca/research_groups/confocal">http://www.science.uwaterloo.ca/research_groups/confocal</a> , 1997.
	SOSNOWSKI, R. et al., "Rapid determination of single base mismatch mutations in DNA hybrids by direct electric field control", Proc. Natl. Acad. Sci. USA, vol. 94, February 1997, 1119-1123.
	WANG, X., "A Unified Theory of Dielectrophoresis and Travelling Wave Dielectrophoresis", J. Phys. D: Appl. Phys., vol. 27, 1994, 1571-1574.
	WASHIZU, M., "Molecular Dielectrophoresis of Biopolymers", IEEE Trans. Industry Applicat., vol. 30, 1994, 835-843.
95	WILSON, T AND SHEPPARD, C., "Theory and Practice of Scanning Optical Microscopy", Academic Press, 1984 (ISBN-0-12-757760-2).

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	1	Attorney Docket Number	612404-377 (prev 265/247)
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### Complete if Known

Application Number	09/905,755
Filing Date	July 13, 2001
First Named Inventor	Jing Cheng et al.
Group Art Unit	1753
Examiner Name	John S. Starsiak

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number	Kind Code <sup>2</sup> (if known)		
JS	US-5445934		Fodor et al	08/29/95
	US-5527670		Stanley	06/18/96
	US-5653939		Hollis	08/05/97
JS	US-6054270		Southern	04/25/00

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sub>6</sub>
	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JS				

Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	JS	

Examiner Signature		Date Considered	9/30/04
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